AMENDMENTS TO THE CLAIMS

1. (Original) A peptide capable of being a diagnostic marker for Alzheimer's disease, the peptide being obtained by cleaving an N-terminal regionand a C-terminal region of Alcadein α, Alcadein β, or Alcadein γ.

2. (Original) The peptide according to claim 1, wherein the N-terminal regionto be cleaved is a portion of an extracellular domain at the N-terminal.

3. (Currently Amended) The peptide according to ~~claim 1 or 2~~ claim 1, wherein the C-terminal regionis cleaved by presenilin.

4. (Original) The peptide according to claim 1, wherein the peptide is obtained by cleaving an N-terminal and a C-terminal regions of Alcadein α; and the cleavage site of the N-terminal regionis between amino acids 815 and 816, amino acids 820 and 821, or amino acids 838 and 839 of the amino acid sequence represented by SEQ ID NO: 1.

5. (Currently Amended) `The peptide according to ~~claim 1 or 2~~ claim 1, wherein the peptide is obtained by cleaving an N-terminal and a C-terminal regions of Alcadein α; and the cleavage site of the C-terminal regionis between amino acids 842 and 843, amino acids 843 and 844, or amino acids 851 and 852 of the amino acid sequence represented by SEQ ID NO: 1.

6. (Original) The peptide according to claim 1, the peptide consisting of an amino acid sequence represented by any one of SEQ ID NOS: 4 to 12.

7. (Currently Amended) A method for collecting data for diagnosing Alzheimer's disease, the method comprising a process of detecting or quantitatively determining the peptide according to ~~any one of claims 1 to 6~~ claim 1 in body fluid or tissues taken from an animal.

8. (Original) The method for collecting data for diagnosing Alzheimer's disease according to claim 7, wherein the body fluid is blood or cerebrospinal fluid.

9. (Currently Amended) The method for collecting data for diagnosing Alzheimer's disease according to ~~claim 7 or 8~~ claim 7, wherein the ratio of a high-molecular-weight peptide to the detected or quantitatively determined peptide is used as an indicator for diagnosing Alzheimer's disease.

10. (Currently Amended) A method for diagnosing Alzheimer's disease, the method comprising a process of detecting or quantitatively determining the peptide according to ~~any one of claims 1 to 6~~ claim 1 in body fluid or tissues taken from an animal.

11. (Original) The method for diagnosing Alzheimer's disease according to claim 10, wherein the body fluid is blood or cerebrospinal fluid.

12. (Currently Amended) The method for diagnosing Alzheimer's disease according to ~~claims 10 or 11~~ claim 10, wherein the ratio of a high-molecular-weight peptide to the detected or quantitatively determined peptide is used as an indicator for diagnosing Alzheimer's disease.

13. (Currently Amended) A method for screening a therapeutic agent for Alzheimer's disease, the method comprising the steps of contacting cells secreting the peptide according to ~~any one of claims 1 to 6~~ claim 1 with an agent to be screened; and determining a change in the secreted amount of the peptide or a change in the molecular species of the secreted peptide.

14. (Currently Amended) An antibody against the peptide according to ~~any one of claims 1 to 6~~ claim 1.

15. (Original) A diagnostic reagent for Alzheimer's disease, the reagent comprising the antibody according to claim 14.